D'YACHENKO, V.E.; MAL'NEV, A.F., kandidat fiziko-matematicheskikh nauk.

Theory of stationary processes in a thermoelement. Nauk.zap.Kiev.un. 8 no.4:69-77 '49. (MLRA 9:10)

1.Chlen-korrespondent Akademii nauk URSR (for D'yachenko).
(Thermocouples)

D'YACHENKO. V? F?. Eng.

Mistakes in planning railroad transportatiom for ore mining enterprises. Gor. zhur. No 9, 1952.

DANILOV, Viktor Aleksandrovich; D'YACHENKO, Vladimir Fedorovich; NEMIROVSKIY, S.A., otvetstvennyy redaktor; LEYBOV, M.K., redaktor; BERESLAVSKAYA, L.Sh., tekhnicheskiy redaktor

[The work of a brigade with installation of telephone cables lead-in] Rabota brigady po ustroistvu vvodov telefonnogo kabelia. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1957. 17 p.
(Telephone cables) (MIRA 10:2)

14(5) SOV/127-59-2-9/21

AUTHORS: D'yachenko, V.F., and Rudim, A.N., Engineers

TITLE: Problems of Transportation and the General Plan of Mining at the KMA (Voprosy transporta i general'-nogo plana rudnikov KMA)

PERIODICAL: Gornyy zhurnal, 1959, Nr 2, pp 42-47 (USSR)

ABSTRACT: The authors discuss the following problems concerning the Kursk Magnetic Anomaly mine fields (KMA): 1) Placement and coordination of the auxiliary installations (repair bases, supply, transport, depots); 2) the most suitable placement of the concentrating mills; 3) the most economical surface-transport network; 4) the development of the main RR lines in harmony with the stage of mining. A discussion of these topics then follows according to the areas: 1) The area of Staryy Oskol. 2) The Mikhaylovskiy area. 3) The area of Belgorod. In the last paragraph the prospective transportation-development in the iron-ore basin between Kursk and Belgorod is

Card 1/4

Problems of Transportation and the General Plan of Mining at the KMA

covered. The skip elevator in shaft Nr 3 of the Yuzhno-Korobkovskiy mine will have a capacity of 3 million tons of quartzites yearly. This mine will get a crushing-concentrating mill, a plant for agglomeration of the concentrate, central mechanical workshops, storehouses, and storages of timber. The Lebedinskiy mine [illegible] is being constructed in such way that the expected increase of mining from 2.5 to 4 million tons yearly will be possible. All RR in the area of Staryy Oskol will have standard (Soviet) gage, The opening operations in the soft-rock layers of the Lebedinskaya open pit are being done with powerful dredgers, and hydromonitors. Mud is being driven off by water thru special pipes. The transport of the hard chalk will be carried out by electric RR trucks. Dump trucks (automobile) will be used at deeper levels. A table shows the advantages of dump trucks over electric locomotives of

Problems of Transportation and the General Plan of Mining at the KMA

the IV-KP-1 type. The Mikhaylovskoye deposits are 100 km from Kursk and 105 km from Orel. The 50 km long RR between Mikhaylovskaya and Arbuzovo is completed. Electric RR transport will be used in the mine to a depth of 80 or 85 m. An experimental belt-conveyer line will be installed. The Yakovlevskoye ore deposits lie about 30 km North of Belgorod. The over-all freight traffic in this area will be about 1,000 heavy RR cars per 24 hours. About 15 million tons of ore are to be hauled. Traffic is to be controlled thru a centralized dispatcher system. A RR connecting the mining area with the RR station Tomarovka (between Belgorod and Gotnya) will be built. Probably also another RR line, connecting the site with the RR station Oboyan' will be built. The mine-prospecting work in the area has reached such a stage that new mines can be opened (the 2nd

Problems of Transportation and the General Plan of Mining at the KMA

part of the Lebedinskiy mine, the Yakovlevskiy mine, and Yuzhno-Lebedinskoye and Stoylenskoye deposits). The Belgorod - Kursk stretch of the Southern RR must be moved, as it crosses ore fields. There are 3 charts and 1 table.

ASSOCIATION: Yuzhgiproruda, Khar'kov

MELESHKIN, S.M., gornyy inzhener; BERLYAND, S.S., gornyy inzhener; SIROTKIN, Z.L., inzh.; DENISOV, A.G., inzh.; TERNOVSKIY, G.I., inzh.; BEKHTEREV, Yu.I., inzh.; ZOTOV, A.V., inzh.; IVANOV, E.I., inzh.; VASIL'YEV, Ye.A., inzh.; SOLOV'YEVA, L.G., inzh.; D'YACHENKO, V.F., inzh.

Replies to V.V. Shan'ko's article "Efficient limits of using truck haulage in open pits." Gor. zhur. no.1:75-77 Ja '62. (MIRA 15:7)

1. Gosudarstvennyy nauchno-ekonomicheskiy sovet Soveta Ministrov SSSR (for Meleshkin). 2. Promtransproyekt Gosstroya SSSR (for Berlyand). 3. Belorusskiy avtozavod (for Sirotkin, Denisov, Ternovskiy, Bekhterev, Zotov, Ivanov). 4. Gosudarstvennyy institut po proyektirovaniyu razrabotki rudnykh mestorozhdeniy v yuzhnykh rayonov SSSR, Khar'kov (for Vasil'yev, Solov'yeva, D'yachenko).

(Mine haulage)
(Shan'ko, V.V.)

ACCESSION NR: AT3001256 S/2562/63/000/012/0053/0069

AUTHOR: D'yachenko, V. F.

TITLE: Building of graph-schemes of algorithms

SOURCE: AN SSSR. Inst. problem peredachi informatsii. Problemy peredachi informatsii, no. 12, 1963, 53-69

TOPIC TAGS: algorithm, algorithmic graph, algorithmic scheme, algorithmic graph-scheme, synthesizing algorithmic graph-scheme

ABSTRACT: The problems are considered of (a) building graph-schemes of an algorithm on the basis of a specified matrix scheme and (b) reducing the number of logic operators by uniting equipotent terms of the graph-schemes. Concepts of logic and nonlogic operators, matrix scheme, logic function, transfer formula, graph and subgraph, branch, dendrite and subdendrite are explained. Two graph-schemes are considered equipotent if the paths connecting the input

Card 1/2

ACCESSION NR: AT3001256

(A_0) and output (A_{n+1}) nodes of these schemes are mutually and unambiguously correspondent. The joining together of equipotent subdendrites, subschemes, etc., is considered. A "signed" elementary conjunction is defined; an example of reducing a set of signed conjunctions with respect to a variable and two other examples are examined. Orig. art. has: 10 figures and 18 formulas.

ASSOCIATION: Institut problem peredachi informatsii AN SSSR (Institute of Information-Transmission Problems; AN SSSR)

SUBMITTED: 01Mar62 DATE ACQ: 28May63 ENCL: 00

SUB CODE: CP, CO NO REF SOV: 008 OTHER: 000

Card 2/2

D'YACHENKO, V.F. (Moskva)

Numerical calculation of discontinuous solutions of quasi-linear systems. Zhur. vych. mat. i mat. fiz. 1 no.6:1127-1129 N-D '61. (MIRA 16:7)

33507

S/562/61/000/009/007/012
D201/D302

6.9500 (1329)

AUTHOR: D'yachenko, V. F.

TITLE: Determining the number of receiving relays and the distribution elements in relay-switching circuits

SOURCE: Akademiya nauk SSSR. Laboratoriya sistem peredachi informatsii. Problemy peredachi informatsii. No. 9, 1961, Elementy sistem avtomatiki, 130-143

TEXT: The author considers the problem of determining the number of relays and of switching elements in relay-switching systems, receiving external signals along the receiving networks, under the following conditions: 1) Binary signals only are applied; 2) the relay switching system utilizes two position relays, e.g. telephone type РПН (RPN) relays; 3) only one input network is busy during the time required for accepting a signal. The problem of determining the number of receiving relays (R), required to accept a signal from any of the input networks, may be solved by choosing a certain method of coding these signals by means of the same receiving re-

Card 1/5

lays. The code for the identification of the receiving network is determined by: 1) the number p of receiving networks; 2) the complexity of coding circuit; 3) the complexity of output circuits. The following coding systems are considered: 1) A non-coded method of identification. In this case R = p. 2) A single coordinate irregular code. In this case the minimum number of relays required to identify any one of the input networks is given by

$$R = \overset{Y}{E}\left[\log_2(p + 1)\right] \qquad (3)$$

where $\overset{Y}{E}(x)$ is the smallest whole number, switching in x. 3) A single coordinate regular code. In this case R relays may identify $p \leqslant C_R^{\lambda}$ input networks where $\lambda = \frac{R}{2}$ when R is even and $\lambda = \frac{R + 1}{2}$ when R is odd. 4) The multi-ordinate codes. By factorizing p into whole factors so that the sum of factors r_i is minimum and if m is

Determining the number ...

the index of the multi-ordinate code, the minimum number of R is derived by

$$R = \sum_{i=1}^{m} r_i \qquad (30)$$

The number of required switching-distributing diode elements is derived on

$$D = h_{i_1} \cdot r_{i_1} + h_{i_2} \cdot r_{i_2} + \ldots + h_{i_k} \cdot r_{i_k} + v_{j_1} \cdot r_{j_1} + v_{j_2} \cdot r_{j_2} + \ldots +$$

$$+ v_{jl} r_{jl} = h \cdot k + v \cdot l \qquad (32)$$

where

Card 3/5

Determining the number ...

$$k \geqslant 2,\ l \geqslant 2 \qquad (33)$$

and where h_i and v_j are the number of the horizontal and vertical coordinates respectively. The choice of coding and of the corresponding circuitry should be economical and determined by the minimum of function

$$f = \alpha(r + R') + \beta D + \gamma(K + K') \qquad (34)$$

where α = cost of a single relay, R and R' = the number of receiving and of additional relays respectively (the contacts of additional relays are used as distribution elements), γ = cost of a contact spring, K and K' = numbers of contact springs at the receiving and additional relays respectively. There are 9 figures and 8 references: 6 Soviet-bloc and 2 non-Soviet-bloc. The references to

Card 4/5

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S/562/61/000/009/007/012
D201/D302

Determining the number ...

the English-language publications read as follows: W. Keister, A.E. Ritchie and S. H. Washburn, The design of switching circuits, N.Y., London, Toronto, 1953; D. A. Huffman, J. of the Franklin Inst., 1954, v. 257, no. 3,4.

SUBMITTED: October 11, 1959

Card 5/5

D'YACHENKO, V.G.

Method of momentary observations. Mashinostroitel' no.8:19-21 Ag '61. (MIRA 14:7)
(Time study)

37621

16.8000

S/044/62/000/004/069/099
C111/C222

AUTHOR: D'yachenko, V. F.

TITLE: The determination of the number of receiving relays and separating elements for relay contacts circuits

PERIODICAL: Referativnyy zhurnal, Matematika, no. 4, 1962, 37, abstract 4V213. ("Probl. peredachi informatsii." Vyp. 9, M., AN SSSR, 1961, 130-145)

TEXT: The question of selecting the minimal number of two position elements (relays) is considered, which is necessary for constructing a circuit that identifies the number of that input of the circuit over which the two position signal is conducted at a given moment. It is assumed that two or more signals will not arrive simultaneously. Formulas to calculate the number of receiving relays and separating elements (valves, relay windings, contacts) are given for various identity codes (under the code to identify the input number is understood a combination of states of the receiving relays corresponding to the presence of the signal at the input to be identified).

Considered are: 1) a non-coded identifying method where each input is

Card 1/2

The determination of the number ...

assigned to a particular relay; 2) a single-coordinate non-uniform code in which the signal at the i-th input corresponds to one of the possible combinations of the receiving relays; 3) single-coordinate uniform code where, to identify the input, that combination among all possible combinations of receiving relays is chosen which consists of only one and the same number of working receiving relays; 4) multi-coordinate (uniform and non-uniform) codes where all receiving relays are divided into groups, in each of which there is used one of the possible combinations of states of the receiving relays to identify the input.

[Abstracter's note: Complete translation.]

Card 2/2

D'YACHENKO, V.F.

Construction of a circuit for the recognition of the subscriber's number in crossbar automatic telephone exchanges. Probl.pered.inform. no.9:206-217 '61. (MIRA 14:7)

(Telephone, Automatic)

88556

S/020/61/136/001/001/037
C111/C222

16.3500
AUTHOR: D'yachenko, V.F.

TITLE: On the Cauchy Problem for Quasilinear Systems

PERIODICAL: Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 1, pp. 16 - 17

TEXT: According to I.M. Gel'fand (Ref. 1) the generalized solution of the hyperbolic system

$$(1) \qquad \frac{\partial u}{\partial t} + \frac{\partial f(u)}{\partial x} = 0$$

where $u = \{u_1, u_2, .., u_n\}$, $f = \{f_1, f_2, ..., f_n\}$ is the limit value (for $\varepsilon \to 0$) of the solution $u_\varepsilon(x,t)$ of

$$(3) \qquad \frac{\partial u}{\partial t} + \frac{\partial f(u)}{\partial x} = \varepsilon \frac{\partial}{\partial x} B(u) \frac{\partial u}{\partial x}$$

where B(u) is an arbitrary positive definite matrix.
Card 1/2

On the Cauchy Problem for Quasilinear Systems

88556
S/020/61/136/001/001/037
C111/C222

By an example the author shows that for a use of this definition the solution of the Cauchy problem for (1) in general is not unique (i.e. the solution depends on the choice of the matrix B(u)).
The author mentions S.K. Godunov. There are 3 Soviet references.

[Abstracter's note : (Ref. 1) concerns a paper of I.M. Gel'fand in Uspekhi matematicheskikh nauk, 1959, Vol. 14, No. 2]

PRESENTED: July 11, 1960, by M.V. Keldysh, Academician

SUBMITTED: July 8, 1960

Card 2/2

D'YACHENKO, V.F. (Moskva); IMSHENNIK, V.S. (Moskva)

Incoming cylindrical shock wave in a plasma, taking the front structure into account. Zhur. vych. mat. i mat. fiz. 3 no.5: 915-926 S-O '63. (MIRA 16:11)

D'YACHENKO, V.F. (Moskva)

Method of transition from logical algorithm systems to Boolean functions. Izv. AN SSSR. Tekh. kib. no.6:128-130 N-D '63. (MIRA 17:4)

D'YACHENKO, V.F.

Construction of algorithm graph-circuits. Probl. peredi. inform. no.12:53-69 '63. (MIRA 17:10)

ACCESSION NR: AT4008641 S/2945/63/000/015/0013/0022

AUTHOR: D'yachenko, V. F.

TITLE: Synthesis of control circuits in algorithmic systems

SOURCE: AN SSSR. Institut problem peredachi informatsii. Problemy* peredachi informatsii, no. 15, 1963. Sistemy* raspredeleniya informatsii. Opoznaniye obrazov, 13--22

TOPIC TAGS: algorithmic system control, control circuit synthesis, logic function determination, algorithm logic circuit, control logic block, functional element, logic variable, algorithmic system operator, algorithm matrix circuit, functional block diagram, algorithm, algorithm control, control logic

ABSTRACT: A method is proposed for obtaining logical functions for the construction of a control scheme for an algorithmic system, the operation of which is described by an algorithm logic circuit, first

Card 1/3

ACCESSION NR: AT4008641

proposed by A. A. Lyapunov (Problemy kibernetiki, No. 1, Fizmatgiz, 1958) for the description of the construction of information processing algorithms, and the algorithm matrix circuit proposed by Yu. M. Yanov (Problemy kibernetiki, No. 1, Fizmatgiz, 1958). The control circuit serves as a logical control block for the operation of the functional elements. The algorithm logic circuit is actually used as a formal language for the description of the control of the algorithmic systems. The synthesis problem consists of determining for a given operator (functional element of the algorithmic system) a binary logical function which represents the conditions for the satisfaction of the operator, starting from the specified algorithm logic circuit. A step by step procedure for this synthesis is presented. The switching in a crossbar automatic telephone station is used as an example of the synthesis. Orig. art. has: 2 figures, 5 formulas, and 1 table.

ASSOCIATION: Institut problem peredachi informatsii AN SSSR (Insti-

Card 2/3

ACCESSION NR: AT4008641

tute of Information Transmission Problems AN SSSR)

SUBMITTED: 00 DATE ACQ: 23Jan64 ENCL: 00

SUB CODE: MM, CO NO REF SOV: 007 OTHER: 000

Card 3/3

D'YACHENKO, V.F.

Uniqueness condition for the continuous solution to the problem of the resolution of discontinuity for a system of three equations. Dokl. AN SSSR 153 no.6:1245-1248 D '63.
(MIRA 17:1)

1. Predstavleno akademikom M.V. Keldyshem.

D'YACHENKO, V.F.

Transformation of logical algorithm networks. Probl. pered. inform. no.17:35-47 '64. (MIRA 17:11)

L 05671-67 EWP(l)/EWT(d) IJP(c) GG/BB

ACC NR: AR6023253 SOURCE CODE: UR/0044/66/000/003/V077/V077

AUTHOR: Bukhgol'ts, N. V.; D'yachenko, V. F.; Lazarev, V. G.; Chernyshev, K. K.; Sharov, V. A.

46
B

REF SOURCE: Sb. Vychisl. sistemy. Vyp. 18. Novosibirsk, 1965, 119-137

TITLE: On the problem of economy of a computer operating memory 16C

SOURCE: Ref. zh. Matematika, Abs. 3V371

TOPIC TAGS: computer memory, computer programming, computer storage device

TRANSLATION: An application for computer storage of programs and constants used for the automatic control of a constant memory makes it possible to decrease the volume of the operating memory. The problem is solved without introducing changes in the program to find an image of the set of program variables in its field of operation such that the number of operating cells is a minimum. To construct this image, a space-time diagram is made up of traces of variables and their projections, making it possible to combine the addresses of different variables. Theorems are proved on the minimum number of addresses of variables in the program. A block diagram for the program of minimizing the number of memory cells is given. Offered as an example is a program for the computation of square roots requiring five operating cells. A programmer of average

UDC: 681.142.001:51

Card 1/2

L 05671-67

ACC NR: AR6023253

skill used 8 cells. The method set forth here is applicable to ready-made programs, in systems of automatic programming, and in the design of specialized computers. 6 figures, 10 references. Yu. M.

SUB CODE: 09/ SUBM DATE: none

Card 2/2

L 3404-66 EWT(1)/EWP(m)/FCS(k)/ETC(m)/EWA(1) WW

ACCESSION NR: AP5020294 UR/0208/65/005/004/0680/0688
518:517.9:533.7

AUTHOR: D'yachenko, V. F. (Moscow) 48 8

TITLE: On a new method of numerical solution of nonstationary problems of gas dynamics with two spatial variables

SOURCE: Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki, v. 5, no. 4, 1965, 680-688

TOPIC TAGS: gas dynamics, gas flow, shock wave, Lagrange equation, Lagrange principle

ABSTRACT: A numerical solution method for nonstationary gas dynamics problems is described. The method features the use of two space variables in a Lagrangian coordinate network; function values are computed at the nodes of the network which also serves as a "background" for substitution of finite-difference equations for differential equations. The nodes of the network are fixed to specific gas particles. The system is given as

$$\left|\begin{aligned}&\frac{\partial u}{\partial t}+u\frac{\partial u}{\partial x}+v\frac{\partial u}{\partial y}+\frac{1}{\rho}\frac{\partial p}{\partial x}=0,\\&\frac{\partial v}{\partial t}+u\frac{\partial v}{\partial x}+v\frac{\partial v}{\partial y}+\frac{1}{\rho}\frac{\partial p}{\partial y}=0,\end{aligned}\right.$$

Card 1/3

$$\frac{\partial p}{\partial t}+u\frac{\partial p}{\partial x}+v\frac{\partial p}{\partial y}+\rho c^2\left(\frac{\partial u}{\partial x}+\frac{\partial v}{\partial y}\right)=0,$$

$$\frac{\partial \rho}{\partial t}+u\frac{\partial \rho}{\partial x}+v\frac{\partial \rho}{\partial y}+\rho\left(\frac{\partial u}{\partial x}+\frac{\partial v}{\partial y}\right)=0,$$

where C is the speed of sound--a known function in p and ρ. A "particle" M_0 is studied which is situated in an arbitrary configuration of neighboring particles $M_1, M_2, \ldots M_n$. The coordinates x_i, y_i, and values of u_i, v_i, p_i, ρ_i (velocity, pressure, and density components, respectively) are known at a given time t = o. It is required to find the same components for M_0 at a time $t = \tau$. Additional equations describing the system are gained from consideration of conservation of energy. The solution is given in the Poisson equation

$$p(\tau, x, y)=\frac{\tau}{2\pi}\int_0^1\int_0^{2\pi} p_1(0, x+c_0\tau r\cos\varphi, y+c_0\tau r\sin\varphi)\frac{r}{\sqrt{1-r^2}}\,dr\,d\varphi+$$

$$+\frac{1}{2\pi}\frac{\partial}{\partial\tau}\tau\int_0^1\int_0^{2\pi} p(0, x+c_0\tau r\cos\varphi, y+c_0\tau r\sin\varphi)\frac{r}{\sqrt{1-r^2}}\,dr\,d\varphi,$$

and in the equations

$$u(\tau, x, y)=u(0, x, y)-\frac{1}{\rho_0}\frac{\partial}{\partial x}\int_0^\tau p(\tau', x, y)\,d\tau',$$

L 3404-66
ACCESSION NR: AP5020294

$$v(\tau, x, y) = v(0, x, y) - \frac{1}{\rho_0} \frac{\partial}{\partial y} \int_0^{\tau} p(\tau', x, y)\, d\tau'.$$

The author develops and discusses a method for reducing the integral terms loading to a method of substituting discrete functions evaluated at grid points for continuous integral terms. The numerical method is predicated on a method of rational selection of coordinate points in the Lagrangian network. The method is applied to the solution of a problem involving shock waves. The method is described as being applicable to problems involving a large irregular relative mass displacement. Orig. art. has: 22 equations and 4 figures.

ASSOCIATION: none

SUBMITTED: 16Jan65 ENCL: 00 SUB CODE: ME

NO REF SOV: 000 OTHER: 003

Card 3/3 rcd

L 9628-66 EWT(1)/EWP(m)/ETC/EPF(n)-2/EWG(m)/EWA(d)/FCS(k)/EWA(h)/EWA(c) IJP(c)
ACC NR: AP6000537 WW/AT SOURCE CODE: UR/0040/65/029/006/0993/0996

AUTHORS: D'yachenko, V. F. (Moscow); Imshennik, V. S. (Moscow)

ORG: none

TITLE: On a converging cylindrically symmetrical shock wave in the presence of dissipative effects

SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 6, 1965, 993-996

TOPIC TAGS: shock wave, ionized plasma, high temperature plasma, reflected shock wave, self similar solution

ABSTRACT: The shock wave structure of a fully ionized plasma was studied, including dissipative effects. A cylindrical geometry is assumed, and the governing equations consist of the ion-momentum equation, the ion-energy equation, and the electron-energy equation. Initial conditions consist of $\rho = \rho_0$, $u = T = \theta = 0$, and the boundary conditions are given by

$$u = 0, \quad \frac{\partial T}{\partial r} = \frac{\partial \theta}{\partial r} = 0 \quad \text{при } r = 0$$

$$\frac{dr^*}{dt} = u, \quad \frac{k}{M}\rho(T + \theta) = f(t) \quad \text{при } r = r^*.$$

A pseudo-self-similar solution is assumed with the parameters ρ_0, μ_0, r_0, and ξ_0 where $tr^{-\nu} = \xi_0$ and for $\gamma = 5/3$, $\nu = 1.226$. The nondimensional parameters for the

Card 1/2

L 9628-66

ACC NR: AP6000537

6

flow are then written in the form

$$\rho_0, \quad r_0 = \left(\frac{\mu_0}{\rho_0 \xi_0^4}\right)^{1/(4\nu-8)}, \quad t_0 = \xi_0 r_0^{\nu}, \quad u_0 = \frac{r_0}{t_0}, \quad T_0 = \frac{M}{k}\frac{r_0^2}{t_0^2},$$

and the equations are solved numerically for a deuterium plasma. The largest difference between the above solution and a fully self-similar case was observed at the cylinder axis during shock wave reflection. The authors thank V. V. Paleychik for carrying out the numerical computations and Ya. M. Kazhdan for kindly permitting the use of the results of the self-similar solution. Orig. art. has: 9 equations and 5 figures.

SUB CODE: 20/ SUBM DATE: 26Jun65/ ORIG REF: 006/ OTH REF: 003

Card 2/2

L 21732-66 EWT(l)/EWP(m)/ETC(f)/EPF(n)-2/EWG(m)/T-2 IJP(c) AT

ACC NR: AT6006749 SOURCE CODE: UR/3136/65/000/960/0001/0066

AUTHOR: Imshennik, V. S.; D'yachenko, V. F.

ORG: Institute of Atomic Energy im. I. V. Kurchatov (Institut atomnoy energii)

TITLE: On the magnetohydrodynamic theory of pinch effect in a dense high temperature plasma

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-960, 1965. K magnitogidrodinamicheskoy teorii pinch-effekta v vysokotemperaturnoy plotnoy plazme, 1-66

TOPIC TAGS: high temperature plasma, plasma pinch, plasma discharge, magnetohydrodynamics

ABSTRACT: Detailed behavior of a deuterium plasma during a linear pinch is studied by solving one-dimensional cylindrically symmetric magnetohydrodynamic equations. The role of dissipative processes (electron and ion thermal conductivity and viscosity, electrical conductivity and electron-ion collision dissipation) occurring in fully ionized plasma and the formation of shock waves are discussed. The connection between the region near the axis and the converging shock wave is determined, and thermonuclear neutron and soft x-ray output is computed. The computation also

Card 1/2

ACC NR: AT6006749

12

determines the plasma temperature and ejection of the mass from the pinch region as a function of the current sheet velocity near the pinch axis. (Typically, 1 kev temperatures occurring at $2.5 \cdot 10^7$ cm/sec sheet velocity and 90% mass ejection are discussed.) The results are compared with the experimental data and the range of agreement between the two is established. The main difficulty arises from presence of non-uniformities which do not occur in the one-dimensional problem. Data from this experiment agrees with data from experimental pinches which are cylindrically symmetric in the entire space between the anode and the cathode of the discharge apparatus. The authors are grateful to N. V. Filippov, T. I. Filippova, V. P. Vinogradov, G. V. Golub, L. G. Golubchikov, and Yu. A. Kolesnikov for their many valuable comments and for their joint analysis of the results of the computations and experiments. The authors express their sincere thanks to V. V. Paleychik who did all the work in providing numerical solutions to the problem on a computer. The authors thank L. A. Artsimovich, M. A. Leontovich, S. N. Braginskiy, V. I. Kogan, B. B. Kadomtsev, and R. P. Fedorenko for their valuable discussion of the formulation of the problem and for their interest in the work. Orig. art. has: 14 figures, 56 formulas, 3 tables.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 024/ OTH REF: 008

Card 2/2 Lpc

L 34410-66 EWT(d)/T IJP(c)

ACC NR: AP6008025 SOURCE CODE: UR/0406/66/002/001/0105/0108

AUTHOR: D'yachenko, V. F.

ORG: None

TITLE: An algorithm for the determination of the maximum of a logical function

SOURCE: Problemy peredachi informatsii, v. 2, no. 1, 1966, 105-108

ABSTRACT: The author presents a definition of the maximum of a logical function on all kinds of sets of values of logical variables of a subset and an algorithm for obtaining it. The algorithm proposed completely excludes the sorting of the values of logical variables. The article presents equivalent relationships between the logical function and its maximum, which makes the transformation of such functions easier. An example is given in the use of the proposed algorithm. Orig. art. has: 1 table and 7 formulas.

SUB CODE: 12 / SUBM DATE: 27Mar65 / ORIG REF: 006 / OTH REF: 001

Card 1/1 BLG UDC 62-507

ACC NR: AR6021233 SOURCE CODE: UR/0271/66/000/003/B007/B007

AUTHOR: Bukhgol'ts, N. V.; D'yachenko, V. F.; Lazarev, V. G.; Chernyshev, K. K.; Sharov, V. A.

TITLE: The economy of digital computer memory 16

SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn, Abs. 3B64

REF SOURCE: Sb. Vychisl. sistemy. Vyp. 18, Novosibirsk, 1965, 119-137

TOPIC TAGS: computer memory, computer program logic, computer design, digital computer

ABSTRACT: The use of read-only memory units for program and constants storing in automatic control computers makes it possible to reduce the volume of immediate-access storage units. Without introducing changes in the existing programs, the problem of mapping a set of program variables on its operating field is solved in order to obtain a minimum number of working cells. The method is applicable to automatic programming systems, to complete programs, and to special-purpose computer design. [Translation of abstract] 6 illustrations and bibliography of 10 titles. Yu. M.

SUB CODE: 09

Card 1/1 UDC: 681.142.2

ACC NR: AP7005232 (A) SOURCE CODE: UR/0145/66/000/009/0103/0107

AUTHOR: Koval', I. A. (Candidate of technical sciences); Sandomirskiy, M. G. (Candidate of technical sciences); D'yachenko, V. G. (Candidate of technical sciences); Ledovskiy, V. I. (Engineer)

ORG: Kharkov Institute of Mechanization and Electrification of Agriculture (Khar'kovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva)

TITLE: Some results from an investigation of the working process of a tractor diesel during operation on diesel fuel and gasoline

SOURCE: IVUZ. Mashinostroyeniye, no. 9, 1966, 103-107

TOPIC TAGS: diesel engine, tractor, engine fuel system, diesel fuel, gasoline

ABSTRACT: The authors study the effect of two-phase fuel input on the dynamics of the combustion process and on the indicated characteristics of diesel engines as a basis for developing multifuel engines. A single-cylinder section of the SMD-14N tractor engine was studied with operation on diesel fuel and A-66 gasoline using two fuel pumps so that the fuel may be fed into the combustion chamber or intake accumulator in any phase with respect to TDC. Fuel feed into the intake accumulator was fixed to give constant delivery at a crankshaft speed of 178 rad/sec. With a variation in load-

Card 1/2 UDC: 621.436

ACC NR: AP7005232

ing at constant crankshaft velocity, the relative quantity of additional fuel ϕ was varied by changing the quantity of primary fuel fed into the combustion chamber: $\phi=G_{add}/(G_{rel}+G_{add})100\%$. It was found that if small quantities of additional fuel are fed into the intake accumulator (ϕ=10-15% for diesel fuel and 15-20% for gasoline) efficiency is not adversely affected under heavy loading by a considerable reduction in the rigidity of engine operation (the pressure buildup rate may be reduced to $2\cdot10^5$-$3\cdot10^5$ N/m^2·deg with operation on diesel fuel and to $8\cdot10^5$-$9\cdot10^5$ N/m^2·deg with operation on gasoline). The use of composite fuel feed reduces maximum combustion pressure by $2\cdot10^5$-$4\cdot10^5$ N/m^2. The results of this study indicate the theoretical possibility for using fuel with a low cetane number to achieve economic indices presently realizable only with operation on fuel with a high cetane number. Orig. art. has: 4 figures.

SUB CODE: 21/ SUBM DATE: 5Nov65/ ORIG REF: 04/ OTH REF: 01

Card 2/2

DYACHENKO, V. G.

DYACHENKO, V. G.: "Reserves for increasing labor productivity in flow production on a cutting tool." Moscow, 1955. Min Higher Education USSR. Moscow Order of Lenin and Order of Labor Red Banner Higher Technical School imeni Bauman. (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 47, 19 November 1955. Moscow.

D'YACHENKO, V.G.; MAKSIMOV, A.L.; MOSKALENKO, V.K.; SHKURKO, S.I.
[illegible]EYDEL'MAN, R.A.

The transition of industrial enterprises to a shorter workday in the first five-year plan. Vop.truda no.1:8-66 '58. (MIRA 12:8)

(Hours of labor)

D'YACHENKO, V.G.

Work organization in machinery manufacturing where the over-all mechanization and automation of assembly processes are in effect. Nauch.trudy MIEI no.18:253-265 '61. (MIRA 15:2)
(Machinery industry) (Automation) (Assembly-line methods)

ŠHOKOTOV, N.K., kand.tekhn.nauk; D'YACHENKO, V.G., inzh.

Superfluous operation of a turbine and effective efficiency of a composite system. Energomashinostrcenie 10 no.1:17-21 Ja '64. (MIRA 17:4)

L 25647-65 EPR/EWA(c)/EWT(d)/EWT(m)/T-2/EWP(f)
ACCESSION NR: AR5003760 S/0273/64/000/011/0002/0002

SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya. Otd. vyp., Abs. 11.39 8

AUTHOR: Tarasov, A. M.; L'yachenko, V. G.

TITLE: Gas exchange processes in combination engines

CITED SOURCE: Tr. Khar'kovsk. in-ta inzh. zh.-d. transp. vyp. 69, 1964, 5-13

TOPIC TAGS: internal combustion engine, gas admission, engine testing, engine

TRANSLATION: A method is presented for calculating the process of gas interchange. This method makes it possible to determine the optimum gas distribution phases and [illegible] the residual gas factor. The proposed method also permits a thorough [illegible] process and makes it possible [illegible]

ENCL: 00

Card 1/1

L 36522-65 EWT(d)/EWT(m)/EWP(c)/EWP(t)/EWP(v)/T/EWP(k)/EWP(t) IJP(c)

ACC NR: AT6013433 (A,N) SOURCE CODE: UR/0000/65/000/000/0011/0017

55

AUTHOR: D'yachenko, V. G. 13+1

ORG: Kharkov Institute of Agricultural Mechanization and Electrification (Khar'kovskiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva)

TITLE: Choice of nominal rpm of compound engines 13

SOURCE: Dvigateli vnutrennego sgoraniya (Internal combustion engines), no. 1. Kharkov, Izd-vo Khar'k. univ., 1965, 11-17

TOPIC TAGS: compound engine, engine performance characteristic, internal combustion engine / 16ChN24/27 internal combustion engine

ABSTRACT: The choice of nominal or operating rpm for compound engines (internal combustion engine combined with gas turbine or compressor) is discussed in connection with minimum cost/unit work done (including fuel, maintenance, engine life, etc). The effects of various engine parameters on the engine efficiency, maintenance, and time-to-major overhaul are presented, based on data tabulated for engines 6Ch8.5/11, 6Ch10.5/13, K-150, D6, M601, 6Ch23/30M, 6Ch18/22, 6Ch25/34, K6V45/46. Experiments performed on research engine 16ChN24/27 to determine the effects of engine rpm on engine parameters are also discussed, and curves of efficiencies, pressures, temperatures, heat losses, etc (of various engine components) are presented as a function of speed (750--1000 rpm). It is concluded that lowering of the nominal engine rpm (from

Card 1/2

L 36522-66

ACC NR: AT6013433

1000 rpm to 850 rpm for the 16ChN24/27 engine) improves the overall effectiveness of the engine with negligible decrease in engine efficiency and a slight increase in required engine temperatures. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 21, 13/ SUBM DATE: 20Apr65/ ORIG REF: 004/ OTH REF: 001

Card 2/2 MLP

D'YACHENKO, V.I.

OVCHINNIKOV, K.M.; MOROZOVSKAYA, M.I.; TISHCHENKO, O.D.; DEMCHENKO, I.A., direktor; NADTOCHIY, S.S.; GORELYSHEVA, I.I.; BEL'SKAYA, M.K.; KONTOROVSKAYA, T.M.; BELYY, Ya.M., zaveduyushchiy; DEREVENKO, V.I.; SHEVCHUK, M.K., zaveduyushchiy; D'YACHENKO, V.I.; SAKOVICH, V.K.; AGAFONOV, I.N., zaveduyushchiy; BESFAMIL'NAYA, P.S.

Prognosis of malarial incidence of a locality and organization of antimalarial measures in the zone of the future Kakhovka reservoir. Med.paraz. i parazit.bol. no.2:109-116 Mr-Ap '53. (MLRA 6:6)

1. Ukrainskiy institut malyarii i meditsinskoy parazitologii imeni professora Rubashkina (for Demchenko). 2. Zaporozhskaya oblastnaya protivomalyariynaya stantsiya (for Belyy). 3. Dnepropetrovskaya oblastnaya protivomalyariynaya stantsiya (for Shevchuk). 4. Khersonskaya oblastnaya protivomalyariynaya stantsiya (for Agafonov).

(Kakhovka reservoir region--Malarial fever)
(Malarial fever--Kakhovka reservoir region)

MOROZOVSKAYA, M.I.; DEMCHENKO, I.A. TISHCHENKO, O.D.; GORELYSHEVA, I.I.: YEVLAKHOVA, V.F.; NADTOCHKIY, S.S.; GAL'PERIN, L.Yu; BELYI, Ya.M.; LAZEBNYY, N.V.; DEREVENKO, V.I.; SERVINENKO, G.A.; SHEVCHUK, M.K.; D'YACHENKO, V.I.; AGAFONOV, N.I.; BESFAMIL'NAYA, P.S., CHERNENKO, Yu.L.

Preventive antimalaria measures for lumberjacks employed in clearing the bed of the future Kakhovka Reservoir. Med.paraz. i paraz.bol.24 no.3:207-208 Jl-S '55. (MLRA 8:12)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta malyarii i meditsinskoy parazitologii imeni prof. V. Ya. Rubashkina (dir. instituta I.S.Demchenko) i Zaporozhskoy, Dnepropetrovskoy i Khersonskoy oblastnykh protivomalyariynykh stantsiy.
(MALARIA, prevention and control, in Russia, in forest workers)

BABICHEV, A.P.; D'YACHENKO, V.I.

Finishing turbine-blade surface by means of vibratory grinding.
Stan. i instr. 35 no.1:37-39 Ja '64 (MIRA 17:3)

D'YACHENKO, V.I.

Introducing friction welding in White Russia. Avtom. svar. 18 no.3:57-58 Mr '65. (MIRA 18:6)

1. Bazovaya svarochnaya laboratoriya Belorusskogo soveta narodnogo khozyaystva.

BABICHEV, A.P., kand. tekhn. nauk; D'YACHENKO, V.I., inzh.

Determining the dependences of the polishing process in vibrating drums. Vest. mashinostr. 45 no.6:40-43 Je '65. (MIRA 18:6)

BABICHEV, A.P.; D'YACHENKO, V.I.

Technological potentialities of vibratory tumbling. Stan i instr. 36 no. 12:26-29 D '65 (MIRA 19:1)

BABICHEV, A.P., kand. tekhn. nauk; KHODOSH, B.B., inzh.; D'YACHENKO, V.I., inzh.

Vibratory polishing of parts with rotating spindles. Vest. mashinostr. 45 no. 12:48-49 D '65 (MIRA 19:1)

D'YACHENKO, V. M., (Candidate of Veterinary Sciences, Kamenets-Podol'sk Agricultural Institute)

The action of antibiotics on the causative agent of erysipelas in swine.

Veterinariya vol. 38, no. 10, October 1961, pp. 81-89

SHIFRIN, Daniil Moiseyevich; D'YACHENKO, V.M., red.; SAVEL'YEVA, Z.A., tekhn. red.

[Thermal-power units] Teplosilovye ustanovki. Moskva, Zagotizdat. Pt.1. 1962. 291 p. (MIRA 16:10)
(Heat engines)

NOVAK, N.Ye., red.; SHPOLYANSKAYA, L.M., otv. za vyp.; D'YACHENKO, V.M., red.; SAVEL'YANOVA, Z.A., tekhn. red.

[Tula Milling Combine No.1, an enterprise of communist labor] Tul'skii mel'kombinat No.1 - predpriiatie kommunisticheskogo truda. Moskva, Zagotizdat, 1962. 51 p. (MIRA 17:4)

D'YACHENKO, V.M.

D'yachenko, V.M. "A comparative study of the effect of certain antibiotics on the bacteria of swine erysipelas." Min Higher Education Ukrainian USSR. Kiev Veterinary Inst. Kiev, 1956. (Dissertation for the Degree of Candidate in Veterinary Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

TUL'CHINSKIY, Yefim Moiseyevich; D'YACHENKO, V.M., red.; KOCHETKOV, L.I., red.; BARANOVA, N.N., tekhred.

[Design and assembly of plant and shop equipment for processing hybrid and high-grade corn seeds] Konstruktsii i montazh oborudovaniia zavodov i tsekhov po obrabotke gibridnykh i sortovykh semian kukuruzy. Moskva, Izd-vo tekhn. i ekon.lit-ry po voprosam mukomol'no-krupianoi, kombikormovoi promyshl. i elevatorno-skladskogo khoz., 1959. 231 p. (MIRA 13:7)
(Seed industry--Equipment and supplies)

YEFREMOV, Ivan Ivanovich; BIL'DE, Anatoliy Eduardovich; BAUM, A.Ye., kand.tekhn.nauk, red.; SINTSEROV, A.D., inzh., red.; D'YACHENKO, V.M., red.; SAVEL'YEVA, Z.A., tekhred.

[Milling machinery industry and flour-milling enterprises of the Hungarian People's Republic] Mel'nichnoe mashinostroenie i predpriiatiia mukomol'noi promyshlennosti Vengerskoi Narodnoi Respubliki. Pod red. A.E.Bauma, i A.D.Sintserova. Moskva, Izd-vo tekhn. i ekon.lit-ry, 1960. 59 p. (MIRA 13:8)
(Hungary--Grain-milling machinery)
(Hungary--Flour mills)

KHOMENKO, Aleksandr Yefimovich; KRAMARENKO, Gennadiy Terent'yevich; D'YACHENKO, V.M., red.; SAVEL'YEVA, Z.A., tekhred.

[Controlling the quality and storing capacity of grain and grain products; manual for inspectors of the State Grain Inspection and workers dealing with grain quality] Kontrol' za kachestvom i sokhrannost'iu zerna i produktov ego pererabotki; posobie dlia inspektorov Goskhlebinspektsii i rabotnikov po kachestvu zerna). Moskva, Izd-vo tekhn. i ekon.lit-ry po voprosam khleboproduktov, 1960. 183 p. (MIRA 13:11)

(Grain)

BARDYSHEV, G.M.; BERLIN, I.Z.; VAYNSHTOK, M.Z.; LEVIN, S.I.; PAVLOV, V.N.; PUSHKANTSEV, B.N.; SAMOCHETOV, V.F.; SEMENOV, M.G.; SOKOLOV, A.Ya.; KHUVES, E.S., inzh.; EMMANUEL', T.P.; GRIGOR'YEV, K.P., inzh., red. [deceased]; DENISENKOVA, L.M., red.; D'YACHENKO, V.M., red.; SAVEL'YEV, Z.A., tekhn. red.

[Technical handbook for workers in the grain-elevator industry] Tekhnicheskii spravochnik rabotnika elevatornoi promyshlennosti. Pod obshchei red. Grigor'eva K.P. i Khuvesa E.S. Moskva, Izd-vo tekhn. i ekon. litry po voprosam khleboproduktov. Pt.1. 1960. 339 p. (MIRA 14:11)
(Grain elevators)

SINEL'SHCHIKOV, Vasiliy Illarionovich; D'YACHENKO, V.M., red.;
SAVEL'YEVA, Z.A., tekhn. red.

[How to store grain properly at grain receiving stations]
Kak pravil'no razmestit' zerno na khlebopriemnykh punktakh.
Moskva, Zagotizdat, 1961. 59 p. (MIRA 15:7)
(Grain--Storage)

AVDUS, Pavel Borisovich; SAPOZHNIKOVA, Aleksandra Semenovna; D'YACHENKO, V.M., red.; GOLUBKOVA, L.A., tekhn. red.

[Determining the quality of grain, flour, and groats] Opredelenie kachestva zerna, muki i krupy. Moskva, Zagotizdat, 1961. 245 p. (MIRA 15:4)
(Grain—Grading) (Flour—Grading)

D'YACHENKO, V.M.

Simple apparatus for serial pouring of liquids. Lab. delo 7 no.5: 59-60 My '61. (MIRA 14:5)

1. Kamenets-Podol'skiy sel'skokhozyaystvennyy institut.
(BIOLOGICAL APPARATUS AND SUPPLIES)

BELEN'KIY, Il'ya Markovich; YAKOVLEVA, B.M., red.; D'YACHENKO, V.M., red.; GOLUBKOVA, L.A., tekhn. red.

[Settling the accounts with collective and state farms for the receipt of grain and seeds] Raschety s kolkhozami i sovkhozami za priniatye zerno i semena. Pod red. B.M.IAkovleva. Izd.4., dop. i perer. Moskva, Zagotizdat. 1962. 114 p. (MIRA 15:7)

(Grain trade--Accounting)
(Seed industry--Accounting)

CHERKASSKIY, Yefim Borisovich; ALEKSEYEV, Boris Vasil'yevich; KRAPIVNER, I.L., red.; D'YACHENKO, V.M., red.; SAVEL'YEVA, Z.A., tekhn. red.

[Utilization of stationary diesel engines at grain elevators and grain-receiving stations] Ekspluatatsiia statsionarnykh dizelei na elevatorakh i khlebopriemnykh punktakh. Pod red. I.L.Krapivnera. Moskva, Zagotizdat, 1962. 162 p. (MIRA 16:11)

(Diesel engines) (Grain handling)

TEVOSYAN, V.T.; MASHKOV, B.M.; BIRYUKOV, F.I.; D'YACHENKO, V.M., red.; GOLUBKOVA, L.A., tekhn. red.

[Manual on the quality of grain and grain products]Spravochnik po kachestvu zerna i produktov ego pererabotki. Moskva, Zagotizdat, 1962. 455 p. (MIRA 15:12)
(Grain trade)

D'YACHENKO, V.M., kand. veter. nauk

Bacteriolytic effect of penicillin on the agent of swine erysipelas. Veterinariia 39 no.11:74 N '62. (MIRA 16:10)

1. Kamenets-Podol'skiy sel'skokhozyaystvennyy institut.

Dyachenko, V.N.

DYACHENKO, V.N., kand.med.nauk

Mercusal in the treatment of chronic cardiovascular insufficiency. Sov.med. 21 no.9:51-53 S '57. (MIRA 11:1)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.

(CARDIOVASCULAR DISEASES, ther.
mersalyl theophyllinate)
(DIURETICS, ther. use
mersalyl theophyllinate in cardiovasc. insuff.)

DYACHENKO, V.N., kand.med.nauk

Treatment of hypertension with reserpine. Sov.med. 22 no.11:118-121 N '58 (MIRA 11:11)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.
(RAUWOLFIA ALKALOIDS, ther. use
hypertension (Rus))

DYACHENKO, V.N., kand.med.nauk; ALFIONOV, Yu.M. (Kuybyshev)

Kassil-Grashchenkov's method of treating peptic ulcer. Klin.med. 36 no.2:118-119 F '58. (MIRA 11:4)

1. Iz Fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.

(PEPTIC ULCER, ther.
iontophoresis of vitamin B-1 (Rus))
(VITAMIN B-1, ther. use
peptic ulcer, iontophoretic admin. (Rus))
(ION TRANSFER
iontophoresis of vitamin B 1 in peptic ulcer (Rus))

DYACHENKO, V.N., kand.med.nauk; KOSHELEVA, A.S.

Diagnostic value of some laboratory studies in rheumatic fever.
Vrach.delo no.6:653 Je '59. (MIRA 12:12)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.
(FIBRINOGEN) (RHEUMATIC FEVER)

DYACHENKO, V.N., dotsent

Some problems in the clinical aspects and treatment of chronic infectious polyarthritis. Vrach.delo no.11:47-49 N '60. (MIRA 13:11)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.
(ARTHRITIS)

DYACHENKO, V.N., dotsent; LIZUNOVA, M.I., kand.med.nauk

Lesions of the cardiovascular system in viral influenza. Sov.med. 24 no.9:56-60 S '60. (MIRA 13:11)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.
(INFLUENZA) (CARDIOVASCULAR SYSTEM--DISEASES)

DYACHENKO, V.N., dotsent

Third tonus in phonocardiographic recording. Terap.arkh. 32 no.10:31-37 '60. (MIRA 14:1)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.
(HEART--SOUNDS)

DICHENKO, V.N., dotsent (Kuybyshev)

Morbidity of hemorrhagic neprhosonephritis in the middle Volga Valley. Klin.med. 38 no.10:132-135 O '60. (MIRA 13:11)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.
(VOLGA VALLEY—EPIDEMIC HEMORRHAGIC FEVER)

DYACHENKO, V.N., dotsent (Kuybyshev)

Use of anticoagulants in rheumatism. Klin.med. no.3:100-105 '62.
(MIRA 15:3)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. - prof. N.Ye. Kavetskiy) Kuybyshevskogo meditsinskogo instituta.
(ANTICOAGULATNS (MEDICINE)) (RHEUMATIC FEVER)
(EMBOLISM)

67174

~~3(7)~~ 3.5000 SOV/50-60-1-7/20

AUTHOR: D'yachenko, V. P.

TITLE: On the Mechanism of Horizontal Inflow and Its Possible Role in the Development of Cumuli and Cumulo-nimbus

PERIODICAL: Meteorologiya i gidrologiya, 1960, Nr 1, pp 34 - 37 (USSR)

ABSTRACT: The development of cumuli and cumulo-nimbus is related with the convective lift of air masses. A. Kh. Khrgian (Ref 3) reports that already in 1915 I. I. Kasatkin introduced the concept of inflow of air masses surrounding the clouds to the updraught. In analogy to the phenomenon of air inflow to the updraught (designated as vertical inflow), the term of horizontal inflow is introduced here. In this phenomenon, the air is drawn in over the cumuli and cumulo-nimbus into the current of horizontal spreading. To estimate the role of this process which is new to meteorologists, it is attempted here to evaluate some possible consequences thereof qualitatively. Figure 1 shows the inflow scheme of the air above the clouds into the horizontal spreading to all sides. The first and most important consequences

Card 1/4

On the Mechanism of Horizontal Inflow and Its Possible Role in the Development of Cumuli and Cumulo-nimbus

SOV/50-60-1-7/20

can be considered to be the downward currents of air above the clouds. In the author's conception, there is a secondary circulation above the cumuli and cumulo-nimbus caused by the horizontal inflow and so to speak forming a mirror image of the primary circulation below the cloud tip. The second consequence of horizontal inflow is the anomalously low relative air humidity above these cloud tips. It may drop to 10% and even less. Observations have not proved this so far, and are not even apt to determine this because of the too short time of the radiosonde or airplane passing through this region. One of the most important consequences of horizontal inflow is that an increased turbulence zone is observed above the tip of the developing cumuli and cumulo-nimbus (Ref 2). V. Parchevskiy (Ref 2) reports that turbulence becomes particularly strong with the approach towards the incus (6-7 km altitude). At the sides, the increased turbulence zone decreases as to thickness (because it is surrounded by dry air above the clouds, from below, however, by humid air coming from the clouds). The increased turbulence zone may be regarded

Card 2/4

On the Mechanism of Horizontal Inflow and Its Possible Role in the Development of Cumuli and Cumulo-nimbus

SOV/50-60-1-7/20

as a volume of lenticular form (Fig 2). Beyond this zone, the wreath-shaped zone of the horizontal inflow begins at the same altitude. Apart from the inflow, the intensive mixing of humid and dry air as well as the horizontal air spreading to all sides are the characteristic features of this zone. Some processes related with the formation of the incus are investigated. It is shown that the effect of horizontal inflow may help to explain the origin of the incus, its shape, structure, and some processes taking place in it. One of the consequences of horizontal inflow is a local temperature inversion occurring above the cloud at the altitude of the cumulo-nimbus tip with the incus. This inversion is formed by the cloud itself and may be designated as autoinversion. The characteristic features of autoinversion are shown. On the basis of these features, autoinversion can be distinguished from the other known inversions. Some atmospheric electrical phenomena related with the development of thunder-clouds are investigated. Cumulo-nimbus in their stage of development are not merely comparable with

Card 3/4

On the Mechanism of Horizontal Inflow and Its Possible Role in the Development of Cumuli and Cumulo-nimbus SOV/50-60-1-7/20

huge jet pumps pumping up steam into the altitudes above the clouds, but they may be also regarded as acting like electrical machines. Information given here can be utilized for artificial operations on huge cumuli. There are 2 figures and 3 Soviet references.

4

Card 4/4

D'YACHENKO, V.P.

Reduce the number of small secondary structures on oil and gas fields. Stroi. truboprov. 9 no.6:15 Je '64.
(MIRA 17:12)

1. Trest Ukrgazneftestroy, Kiyev.

D'YACHENKO, V.

D'yachenko, V. - "The struggle to accelerate the turnover of funds -- a new, higher stage of the mastery of production", Voprosy ekonomiki, 1949, No. 4, p. 18-35.

SO: U-4631, 16 Sept. 53, (Letopis 'Zhurnal 'nykh Statey, No. 24, 1949).

ATLAS, M.S.; D'YACHENKO, V.P., professor, redaktor.

[Credit reform in the U.S.S.R.] Kreditnaia reforma v SSSR. Pod red. V.P. D'iachenko. Moskva, Gosfinizdat, 1952. 227 p. (MLRA 6:5) (Credit)

LAPTEVA, I. D., D'YACHENKO, V. P., KARAVAYEVA, A. (Editors)

Collective Farms

"Problems of collective farm building in the U. S. S. R." Reviewed by P. Golubkov. Vop. ekon, no. 4, Apr. 1952.

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Authors : Dyachenko, V. P., Memb. Corresp. of Acad. of Sc. USSR

Title : Actual problems of economical science

Periodical : Vest. AN SSSR 12, 7-20, Dec 1954

Abstract : The role of Marx-Lenin communistic economical science, in the development of socialistic industry, is discussed. The actual problems facing the economical science of the USSR are listed.

Institution : ...

Submitted : ...

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